



Capstone Project 1

CMU-SE 450

Product Backlog

Version 1.1

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ResumeGeniusAI - AI-Powered Resume Builder & Analysis integrated with the Job Search Platform

Submitted by C1SE.02

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Project Information

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1. Introduction

The agile product backlog in Scrum is a prioritized features list, containing short descriptions of all functionality desired in the product. When applying Scrum, it's not necessary to start a project with a lengthy, upfront effort to document all requirements. Typically, a Scrum team and its product owner begin by writing down everything they can think of for agile backlog prioritization. This agile product backlog is almost always more than enough for a first sprint. The Scrum product backlog is then allowed to grow and change as more is learned about the product

1.2 Purpose

- Provide a prioritized features list, containing a short description of all functionality desired in the product.
- Lists everything that the product owner and Scrum team feel should be included in the software they are developing.

1.3 Scope

- Lists the user's role.
- Write all the user's requirements.
- Lists some main functions of the system.
- Short description of all the functionality desired in the product.
- Given the priority of each feature and function of the product.

1.4 References

No	Source	Note
1	https://www.visual-paradigm.com/scrum/what-is-product-backlog-in-scrum/	What is a Product Backlog in Scrum? Who is Responsible for It?
2	https://www.scrum-institute.org/The_Scrum_Product_Backlog.php	The Scrum Product Backlog - International Scrum Institute

2. Product Backlog Specification

Priority and Estimates

- Priorities are set from high (H), medium (M) and low (L):
- The priorities of some user stories can be the same as others.
- If a user story has dependencies, it must have lower priority than its dependencies

Table 1: Product Backlog Specification

ID	Theme	As a	I want to	So That
RGA01	Register	Candidate, Human resource, Guest	Create my account.	I can use that account to log into the system.
RGA02	Login	Candidate, Human Resource, Admin, Guest	Login to the web by my account	I can use the web with my role
RGA03	Logout	Candidate, Human Resource, Admin	Logout from the web	I can stop using the system.
RGA04	Change Password	Candidate, Human resource	Change the password for my account	I can change the password
RGA05	Edit Profile	Candidate, Human resource	Update information for my account	I can change the information at my profile.
RGA06	Create and manage Resume	Candidate	Create, edit, and delete my resume	I can manage my resume for job applications.

ID	Theme	As a	I want to	So That
RG07	Upgrade Resume	Candidate, Guest	Upgrade my resume	I can improve my chances of getting a job.
RG08	Find jobs	Candidate	Search for jobs	I can connect with the right opportunities.
RG09	Manage Company	Admin	To manage company profiles by creating, updating, viewing, or deleting them.	The platform maintains accurate and up-to-date information for job seekers to view and connect with relevant companies.
RG10	Manage job description	Human Resource	Manage existing job descriptions	I can update, edit, or delete job postings.
RG11	Job Proposal	Human Resource	Propose jobs to candidates	I can match the right jobs with the best candidates.
RG12	Manage Role & Permission	Admin	Manage access and permissions for users	I can ensure the correct roles and privileges are assigned.
RG13	Candidate Evaluation System	Human Resource	Evaluate candidates based on their resumes	I can assess candidates' suitability for job positions.
RG14	Check spelling and grammar errors	Candidate, Human Resource	Check for spelling and grammar errors in the text	I can ensure that my resumes and job descriptions are error-free.
RG15	Export resume	Candidate	Export my resume	I can export my resume

ID	Theme	As a	I want to	So That
RG16	Share to the social platform	Candidate, Human Resource	Candidate, Human Resource	I can reach a broader audience for job opportunities.
RG17	Manage user accounts	Admin	Manage user accounts and profiles	I can keep the system secure and up to date.
RG18	Select Resume Templates	Candidate	Have a variety of resume templates to choose	I can select the one that best fits my needs and preferences, and create a professional and impressive resume.
RG19	Home Page	Candidate, Human Resource, Guest	See a clean, user-friendly homepage with personalized job and candidate recommendations, easy access to search and filtering options, and quick links to relevant features (e.g., dashboard, profile updates, and application status).	As a candidate, I can easily find suitable job opportunities, track my applications, and update my profile; or as a Human Resource user, I can efficiently manage job postings, track applicants, and review profiles for quick decision-making.
RG20	Detecting Validity of a Field (AI model)	Developer	Automatically detect and correct inaccuracies in data fields	I can ensure the integrity and accuracy of user-entered data.

ID	Theme	As a	I want to	So That
RG21	Generate Summary from CV Data	Candidate	Automatically generate a summary in a resume based on basic information.	I can have a well-crafted and professional summary that highlights my key skills, experience, and career goals without needing to write it manually.
RG22	Admin Dashboard	Admin	Have an admin dashboard,	I can manage and monitor user activities, oversee the creation of resumes, and manage site content efficiently.
RG23	Manage Resume	Admin	To be able to manage the resumes created by users.	I can review, approve, reject, or delete resumes as needed to ensure high-quality content on the platform.
RG24	Change Template Theme Color	Candidate	To change the theme color of a selected resume template	I can customize my resume's appearance and make it more aligned with my personal style or branding.
RG25	Notification for Job Application	Human resource	To receive a notification immediately when a candidate applies for a job with their resume	I can quickly review applications and respond to candidates in a timely manner.

ID	Theme	As a	I want to	So That
RG26	Predict of a Field (AI model)	Developer	Automatically predict the value of a particular field.	I can predict and return the correct value of a field when it is false.
RG27	HR Registration	Candidate, Guest, Admin	Read the terms and conditions and register to become an HR. Manage and review the registration requests from Candidates and Guests	I can receive an HR account via email and access HR features. I can approve or reject them based on the provided information and eligibility.
RG28	Resume Improvement Suggestions	Candidate	I want to receive suggestions and tips for improving my resume.	I can create a more professional and appealing resume to increase my chances of getting hired.

Table 2: Priority Levels

Level	Priority	Estimate
1	Low	Estimated time to complete the work (hour)
2	Medium	
3	High	

Table 3: Product Backlog

Product Backlog		Priority	Estimate (hour)
RGA01	Register	2	
RGA02	Login	2	
RGA03	Logout	1	
RGA04	Change Password	1	
RGA05	Edit Profile	3	
RGA06	Create and manage Resume	3	
RGA07	Upgrade Resume	3	
RGA08	Find jobs	3	
RGA09	Manage Company	2	
RGA10	Manage Job Description	2	
RGA11	Job Proposal	1	
RGA12	Manage Role & Permission	3	
RGA13	Candidate Evaluation System	2	
RGA14	Check spelling and grammar errors	3	
RGA15	Export resume	2	
RGA16	Share to the social platform	1	
RGA17	Manage user accounts	3	
RGA18	Select Resume Templates	3	
RGA19	Home Page	3	
RGA20	Detecting Validity of a Field (AI model)	3	

Product Backlog		Priority	Estimate (hour)
RGA21	Generate Summary from CV Data	3	
RGA22	Admin Dashboard	1	
RGA23	Manage Resume	2	
RGA24	Change Template Theme Color	1	
RGA25	Notification for Job Application	2	
RGA26	Predict of a Field (AI model)	3	
RGA27	HR Registration	3	
RGA28	Resume Improvement Suggestions	2	

3. Challenges

No.	Challenge	Condition
1	Time	The project completion time limit is 1600 hours so the time to complete the project is restricted.
2	Project	4 people working together to finish the project.
3	The integrated system	Must be connected to the Internet network to operate, the PayPal system.
4	Requirements	Follow owner requirements and market.

4. Stakeholders and User Description

Name	Description	Role
Product Owner	The Person who gives the Requirement.	Provide information to develop the system. Make the decision to accept and implement the project, and do the unit test.

Scrum Master	This is the stakeholder who leads and manages the system development Team.	Controlling, managing, monitoring, and making sure the project is completed on time, within budget, and according to plan and requirements.
Team Developer	This is a stakeholder that programs the software.	Implement the project.

4. Attachment

https://drive.google.com/drive/folders/1RZtmGyhkQ0eHeKxCpVgUtui4NJL1_eii?usp=sharing